

IN THE CLAIMS

The pending claims are set forth as follows.

1. (Currently Amended) An on-board base station~~A telecommunication system~~, comprising:
 - an interface device on board an aircraft that interfaces with a separate wireless phone of a user inside the aircraft and with a wireless bearer system; and
 - a controller that controls RF emissions of the separate wireless phone to maintain the RF emissions below a predetermined level.
2. (Currently Amended) An on-board base station~~A telecommunication system~~ according to Claim 1, wherein the wireless bearer system is a SATCOM system,
 - wherein said interface device receives signals from and transmits signals to the separate wireless phone and receives signals from and transmits signals to the SATCOM system, and
 - wherein said controller controls said interface device to maintain the RF emissions of the separate wireless phone below a predetermined level.
3. (Currently Amended) An on-board base station~~A telecommunication system~~ according to Claim 2, wherein said interface device also interfaces through the SATCOM system to a cellular network and then with a public switched telephone network to register the separate wireless phone as a roaming subscriber on the contacted cellular network.
4. (Currently Amended) An on-board base station~~A telecommunication system~~ according to Claim 1, wherein the predetermined level is a level above which RF emissions will interfere with aircraft systems.
5. (Currently Amended) An on-board base station~~A telecommunication system~~ according to Claim 2, further comprising:

a SATCOM gateway on board the aircraft that converts signals received from the wireless phone to protocols of the SATCOM system and that converts signals received from the SATCOM system to protocols of the separate wireless phone.

6. (Currently Amended) An on-board base station~~A telecommunication system~~ according to Claim 1, further comprising:

an antenna in a cabin of the aircraft that receives output signals from the separate wireless phone and conveys the output signals to said interface device.

7. (Currently Amended) An on-board base station~~A telecommunication system~~ according to Claim 6, further comprising:

a media converter that conveys the signals between said antenna and said interface device.

8. (Currently Amended) ~~A telecommunication system according to Claim 1, further comprising:~~

an interface device on board an aircraft that interfaces with a wireless phone of a user inside the aircraft and with a wireless bearer system;

a controller that controls RF emissions of the wireless phone to maintain the RF emissions below a predetermined level;

an RF detector that detects unwanted RF emissions above the predetermined level and unsupported cellphone types,

wherein said controller alerts crew members of the aircraft to the unwanted RF emissions and unsupported cellphone types detected by said RF detector.

9. (Currently Amended) An on-board base station~~A telecommunication system~~ according to Claim 1, further comprising:

an external antenna that respectively transmits and receives direct cellular signals to and from the separate wireless phone when the aircraft is on the ground.

10. (Currently Amended) An on-board base station~~A telecommunication system~~ according to Claim 1, wherein said interface device is a microcell.
11. (Currently Amended) An on-board base station~~A telecommunication system~~ according to Claim 1, wherein said interface device is a picocell.
12. (Original) A telecommunication system, comprising:
- an interface device on board an aircraft that interfaces with a wireless phone of a user inside the aircraft and with a SATCOM system, said interface device receiving signals from and transmitting signals to the wireless phone, receiving signals from and transmitting signals to the SATCOM system, and interfacing through the SATCOM system to a cellular network and then with a public switched telephone network to register the wireless phone as a roaming subscriber on the contacted cellular network;
 - a controller that controls said interface device to maintain RF emissions of the wireless phone below a predetermined level, the predetermined level being a level above which RF emissions will interfere with aircraft systems;
 - a SATCOM gateway on board the aircraft that converts signals received from the wireless phone to protocols of the SATCOM system and that converts signals received from the SATCOM system to protocols of the wireless phone;
 - an antenna in a cabin of the aircraft that receives output signals from the wireless phone and conveys the output signals to said interface device;
 - a media converter that conveys the signals between said antenna and said interface device;
 - an RF detector that detects unwanted RF emissions above the predetermined level and unsupported cellphone types, wherein said controller alerts crew members of the aircraft to the unwanted RF emissions and unsupported cellphone types detected by said RF detector; and
 - an external antenna that respectively transmits and receives direct cellular signals to and from the wireless phone when the aircraft is on the ground.

13. (Currently Amended) An on-board base station~~A telecommunication system~~, comprising;

means on board an aircraft for interfacing with a separate wireless phone of a user inside the aircraft and with a wireless bearer system;

means for controlling RF emissions of the separate wireless phone to maintain the RF emissions below a predetermined level, the predetermined level being a level above which RF emissions will interfere with aircraft systems,

wherein said means for interfacing receives signals from and transmits signals to the separate wireless phone and receives signals from and transmits signals to the wireless bearer system.

14. (Currently Amended) An on-board base station~~A telecommunication system~~ according to Claim 13, wherein the wireless bearer system is a SATCOM system, and

wherein said means for interfacing also interfaces through the SATCOM system to a cellular network and then with a public switched telephone network to register the wireless phone as a roaming subscriber on the contacted cellular network

15. (Currently Amended) An on-board base station~~A telecommunication system~~ according to Claim 14, further comprising:

means on board the aircraft for converting signals received from the wireless phone to protocols of the SATCOM system and for converting signals received from the SATCOM system to protocols of the separate wireless phone.

16. (Currently Amended) An on-board base station~~A telecommunication system~~ according to Claim 13, further comprising:

means for detecting unwanted RF emissions above the predetermined level and unsupported cellphone types,

wherein said means for controlling alerts crew members of the aircraft to the unwanted RF emissions and unsupported cellphone types detected by said means for detecting.

17. (Currently Amended) An on-board base station~~A telecommunication system~~ according to Claim 13, further comprising:

means for respectively transmitting and receiving direct cellular signals to and from the wireless phone when the aircraft is on the ground.

18. (Original) A telecommunication system, comprising;

means on board an aircraft for interfacing with a wireless phone of a user inside the aircraft and with a wireless bearer system, said means for interfacing for receiving signals from and transmitting signals to the wireless phone, for receiving signals from and transmitting signals to the wireless bearer system, and for interfacing through the wireless bearer system to a cellular network and then with a public switched telephone network to register the wireless phone as a roaming subscriber on the contacted cellular network;

means for controlling RF emissions of the wireless phone to maintain the RF emissions below a predetermined level, the predetermined level being a level above which RF emissions will interfere with aircraft systems;

means on board the aircraft for converting signals received from the wireless phone to protocols of the wireless bearer system and for converting signals received from the wireless bearer system to protocols of the wireless phone;

means for detecting unwanted RF emissions above the predetermined level and unsupported cellphone types, wherein said means for controlling alerts crew members of the aircraft to the unwanted RF emissions and unsupported cellphone types detected by said means for detecting; and

means for respectively transmitting and receiving direct cellular signals to and from the wireless phone when the aircraft is on the ground.

19. (Currently Amended) An on-board base station implemented method of two-way communications using a separate wireless phone on board an aircraft, said method comprising the steps of:

interfacing on board the aircraft with the separate wireless phone of a user inside the aircraft and with a wireless bearer system; and

controlling RF emissions of the separate wireless phone to maintain the RF emissions below a predetermined level.

20. (Currently Amended) A method according to Claim 19, wherein the wireless bearer system is a SATCOM system, and

wherein said interfacing step comprises receiving signals from and transmitting signals to the separate wireless phone and receiving signals from and transmitting signals to the SATCOM system.

21. (Currently Amended) A method according to Claim 19, wherein said interfacing step further comprises interfacing through the wireless bearer system to a cellular network and then with a public switched telephone network to register the separate wireless phone as a roaming subscriber on the contacted cellular network.

22. (Original) A method according to Claim 19, wherein the predetermined level is a level above which RF emissions will interfere with aircraft systems.

23. (Currently Amended) A method according to Claim 20, further comprising the step of: converting signals received from the wireless phone to protocols of the SATCOM system and converting signals received from the SATCOM system to protocols of the separate wireless phone.

24. (Original) A method according to Claim 19, further comprising the step of: detecting unwanted RF emissions above the predetermined level and unsupported cellphone types,

wherein said controlling step comprises alerting crew members of the aircraft to the unwanted RF emissions and unsupported cellphone types detected in said detecting step.

25. (Currently Amended) A method according to Claim 19, further comprising the step of:
transmitting and receiving direct cellular signals to and from the separate wireless phone
when the aircraft is on the ground.

26. (Original) A method of two-way communications using a wireless phone on board an
aircraft, said method comprising the steps of:
interfacing on board the aircraft with the wireless phone of a user inside the aircraft and
with a wireless bearer system, said interfacing step comprising receiving signals from and
transmitting signals to the wireless phone, receiving signals from and transmitting signals to the
wireless bearer system, and interfacing through the wireless bearer system to a cellular network
and then with a public switched telephone network to register the wireless phone as a roaming
subscriber on the contacted cellular network;

controlling RF emissions of the wireless phone to maintain the RF emissions below a
predetermined level, the predetermined level being a level above which RF emissions will
interfere with aircraft systems;

converting signals received from the wireless phone to protocols of the wireless bearer
system and converting signals received from the wireless bearer system to protocols of the
wireless phone;

detecting unwanted RF emissions above the predetermined level and unsupported
cellphone types, wherein said controlling step comprises alerting crew members of the aircraft to
the unwanted RF emissions and unsupported cellphone types detected in said detecting step; and

transmitting and receiving direct cellular signals to and from the wireless phone when the
aircraft is on the ground.

27. (Currently Amended) Computer executable code for implementing a method in an on-
board base station of two-way communications using a separate wireless phone on board an
aircraft, said code for executing the steps comprising:

interfacing on board the aircraft with a separate wireless phone of a user inside the
aircraft and with a wireless bearer system; and

controlling RF emissions of the separate wireless phone to maintain the RF emissions below a predetermined level.

28. (Currently Amended) Computer executable code according to Claim 27, wherein said interfacing step comprises receiving signals from and transmitting signals to the separate wireless phone and receiving signals from and transmitting signals to the wireless bearer system.

29. (Currently Amended) Computer executable code according to Claim 28, wherein said interfacing step further comprises interfacing through the wireless bearer system with a cellular network and then with a public switched telephone network to register the separate wireless phone as a roaming subscriber on the contacted cellular network.

30. (Original) Computer executable code according to Claim 27, wherein the predetermined level is a level above which RF emissions will interfere with aircraft systems.

31. (Currently Amended) Computer executable code according to Claim 27, wherein the wireless bearer system is a SATCOM system, and

said code for further executing the step of converting signals received from the separate wireless phone to protocols of the SATCOM system and converting signals received from the SATCOM system to protocols of the wireless phone.

32. (Original) Computer executable code according to Claim 27, said code for further executing the step of:

detecting unwanted RF emissions above the predetermined level and unsupported cellphone types,

wherein said controlling step comprises alerting crew members of the aircraft to the unwanted RF emissions and unsupported cellphone types detected in said detecting step.

33. (Currently Amended) Computer executable code according to Claim 27, said code for further executing the step of:

transmitting and receiving direct cellular signals to and from the separate wireless phone when the aircraft is on the ground.

34. (Original) Computer executable code for implementing a method of two-way communications using a wireless phone on board an aircraft, said code for executing the steps comprising:

interfacing on board the aircraft with a wireless phone of a user inside the aircraft and with a wireless bearer system, said interfacing step comprising receiving signals from and transmitting signals to the wireless phone, receiving signals from and transmitting signals to the wireless bearer system, and interfacing through the wireless bearer system with a cellular network and then with a public switched telephone network to register the wireless phone as a roaming subscriber on the contacted cellular network;

controlling RF emissions of the wireless phone to maintain the RF emissions below a predetermined level, the predetermined level being a level above which RF emissions will interfere with aircraft systems;

converting signals received from the wireless phone to protocols of the wireless bearer system and converting signals received from the wireless bearer system to protocols of the wireless phone;

detecting unwanted RF emissions above the predetermined level and unsupported cellphone types, wherein said controlling step comprises alerting crew members of the aircraft to the unwanted RF emissions and unsupported cellphone types detected in said detecting step; and

transmitting and receiving direct cellular signals to and from the wireless phone when the aircraft is on the ground.

35-36 (Canceled)

37. (Currently Amended) A method of two-way communications using a separate wireless phone on board an aircraft, said method comprising the steps of:

providing a base station on the aircraft to receive outbound signals from the wireless phone;

transmitting the outbound signals from the aircraft to a wireless bearer system for communication to a ground earth station;

receiving, by the base station, inbound signals from the wireless bearer system; transmitting the inbound signals from the base station to the separate wireless phone; and interfacing, through the wireless bearer system, the base station with a cellular network and then with a public switched telephone network to register the separate wireless phone as a roaming subscriber on the contacted cellular network,

wherein the base station controls RF emissions of the separate wireless phone to maintain the RF emissions below a predetermined level, the predetermined level being a level above which RF emissions will interfere with aircraft systems.

38. (Currently Amended) A method according to Claim 37, further comprising the step of: converting signals received from the separate wireless phone to protocols of the wireless bearer system and converting signals received from the wireless bearer system to protocols of the separate wireless phone.

39. (Previously Presented) A method according to Claim 37, further comprising the step of: detecting unwanted RF emissions above the predetermined level and unsupported cellphone types, wherein the base station alerts crew members of the aircraft to the unwanted RF emissions and unsupported cellphone types detected in said detecting step.

40. (Currently Amended) A method according to Claim 37, further comprising the step of: transmitting and receiving direct cellular signals to and from the separate wireless phone when the aircraft is on the ground.

41. (Original) A method of two-way communications using a wireless phone on board an aircraft, said method comprising the steps of: providing a base station on the aircraft to receive outbound signals from the wireless phone;

transmitting the outbound signals from the aircraft to a wireless bearer system for communication to a ground earth station;

receiving, by the base station, inbound signals from the wireless bearer system;

transmitting the inbound signals from the base station to the wireless phone;

interfacing, through the wireless bearer system, the base station with a cellular network and then with a public switched telephone network to register the wireless phone as a roaming subscriber on the contacted cellular network;

controlling RF emissions of the wireless phone to maintain the RF emissions below a predetermined level, the predetermined level being a level above which RF emissions will interfere with aircraft systems;

converting signals received from the wireless phone to protocols of the wireless bearer system and converting signals received from the wireless bearer system to protocols of the wireless phone;

detecting unwanted RF emissions above the predetermined level and unsupported cellphone types, wherein said controlling step comprises alerting crew members of the aircraft to the unwanted RF emissions and unsupported cellphone types detected in said detecting step; and

transmitting and receiving direct cellular signals to and from the wireless phone when the aircraft is on the ground.